

Andrew Allyn

SENIOR RESEARCH MANAGER - GULF OF MAINE RESEARCH INSTITUTE

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About me text.

Education

University of Massachusetts Amherst

PHD MARINE SCIENCE AND TECHNOLOGY

Amherst, MA

2012-2024

University of Massachusetts Amherst

MSC WILDLIFE AND FISHERIES CONSERVATION

Amherst, MA

2008-2012

Connecticut College

BA ENGLISH

New London, CT

2003-2007

Research

Senior Research Manager

Integrated Systems Ecology Lab

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2022-Present

- Leads species distribution modeling work, including developing and predicting spatio-temporal models under potential future environmental conditions expected from global climate models
- Designs and executes simulation studies to interrogate spatio-temporal model prediction skill and build theoretical understanding of capacity of spatio-temporal models to support forward-looking decision-making processes
- Supports Dr. Mills in managing and running the Integrated Systems Ecology Lab through co-supervision of quantitative research associates, idea generation and proposal writing, project tracking and reporting, and optimizing project assignments across the lab

Research Associate

Integrated Systems Ecology Lab

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2019-2022

- Managed species distribution modeling work, including gathering and processing a variety of state and federal fisheries-independent bottom trawl survey datasets, ocean model reanalysis products and global climate model outputs of physical environmental marine ecosystem conditions
- Assisted Dr. Mills in managing the Integrated Systems Ecology Lab by setting up data analysis workflows, supporting and onboarding new lab members

Research technician

Integrated Systems Ecology Lab

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2016-2019

- Completed analyses to understand project the distribution and abundance of marine species within the Northeast U.S. Shelf Large Marine Ecosystem by synthesizing quantitative species distribution models with qualitative expert climate vulnerability assessments

Gulf of Maine Coastal Ecosystem Survey Project Led

Portland, ME

UNIVERSITY OF MAINE AND THE GULF OF MAINE RESEARCH INSTITUTE

2014-2017

- Designed project and wrote proposal to increase our understanding of the Gulf of Maine ecosystem, with a focus on the habitat use of marine birds (\$490k over 3 yrs)
- Completed at-sea ecosystem surveys, including making marine birds and mammals observations and supporting physical and biological oceanographic sampling
- Synthesized marine bird distribution data to understand habitat use as a function of marine ecosystem conditions with Bayesian hierarchical communicate distance sampling models
- Disseminated project results through final reports and informal blog entries (www.gomces.wordpress.com)

NSF IGERT Offshore Wind PhD Fellow

Intercampus Marine Sciences

Graduate Program

UNIVERSITY OF MASSACHUSETTS AMHERST

2012-2024

- Designed and implemented simulation study to understand relationship between residual spatial autocorrelation and statistical inferences from species distribution models
- Collaborated with the NOAA Stellwagen Bank National Marine Sanctuary to deploy satellite tags on Great shearwaters, track their movements, and develop Bayesian Switching State-Space models of their movement and habitat use as a function of landscape variables and oceanographic characteristics
- Participated in interdisciplinary team meetings to evaluate opportunities for linking ecological, societal, economic and technical considerations in meeting the challenge of siting offshore wind turbines in US waters

- Designed research objectives, obtained state and federal permits, procured funding, and completed subsequent project reports
- Fit presence-only species distribution model to describe Kittlitz's murrelet habitat use as a function of temperature-depth profile characteristics and landscape variables
- Deployed radio transmitters using prong and glue attachment techniques and monitoring Kittlitz's murrelet habitat use using both boat-based tracking and remote data logging stations
- Conducted at-sea surveys for marine birds and mammals from 25' and 55' vessels

Publications

- Lewis, A.S.L., Rollinson, C.R., **Allyn, A.J.**, Ashander, J., Brodie, S., Brookson, C.B., & ... (2023). The power of forecasts to advance ecological theory. *Methods in Ecology and Evolution*. 14 (3), 746-756
- Braun, C.D., Lezama-Ochoa, N., Farchadi, N., Arostegui, M.C., Alexander, M., **Allyn, A.J.**, & ... (2023). Widespread habitat loss and redistribution of marine top predators in a changing ocean. *Science Advances*. 9 (32), eadi2718
- Braun, C.D., Arostegui, M.C., Farchadi, N., Alexander, M., Afonso, P., **Allyn, A.J.**, & ... (2023). Building use-inspired species distribution models: Using multiple data types to examine and improve model performance. *Ecological Applications*. 33 (6), e2893
- Allyn, A.J.**, Alexander, M.A., Franklin, B.S., Massiot-Granier, F., Pershing, A.J., & ... (2020). Comparing and synthesizing quantitative distribution models and qualitative vulnerability assessments to project marine species distributions under climate change. *PLoS One*. 15 (4), e0231595
- Kong, S., Bai, J., Lee, J.H., Chen, D., **Allyn, A.J.**, Stuart, M., Pinsky, M., Mills, K., & ... (2020). Deep hurdle networks for zero-inflated multi-target regression: Application to multiple species abundance estimation. *arXiv preprint arXiv:2010.16040*
- Staudinger, M.D., Mills, K.E., Stamieszkin, K., Record, N.R., Hudak, C.A., **Allyn, A.J.**, & ... (2019). It's about time: A synthesis of changing phenology in the Gulf of Maine ecosystem. *Fisheries Oceanography*. 28 (5), 532-566
- Schuetz, J.G., Mills, K.E., **Allyn, A.J.**, Stamieszkin, K., Bris, A.L., & Pershing, A.J. (2019). Complex patterns of temperature sensitivity, not ecological traits, dictate diverse species responses to climate change. *Ecography*. 42 (1), 111-124
- Le Bris, A., Mills, K.E., Wahle, R.A., Chen, Y., Alexander, M.A., **Allyn, A.J.**, & ... (2018). Climate vulnerability and resilience in the most valuable North American fishery. *Proceedings of the National Academy of Sciences*. 115 (8), 1831-1836
- Powers, R.A., K.D., Wiley, D.N., **Allyn, A.J.**, Welch, L., & Ronconi, R. (2017). Movements and foraging habitats of great shearwaters *Puffinus gravis* in the Gulf of Maine. *Marine Ecology Progress Series*. 574, 211-226
- Allyn, A.J.**, McKnight, A., McGarigal, K., Griffin, C.R., Kuletz, K.J., Cushing, D.A., & ... (2015). Assessing a paired logistic regression model of presence-only data to map important habitat areas of the rare Kittlitz's Murrelet *Brachyramphus brevirostris*. *Marine Ornithology*. 43, 65-76
- McKnight, A., **Allyn, A.J.**, Duffy, D.C., & Irons, D.B. (2013). 'Stepping stone' pattern in Pacific Arctic tern migration reveals the importance of upwelling areas. *Marine Ecology Progress Series*. 491, 253-264
- Kuletz, K.J., Nations, C.S., Manly, B., **Allyn, A.J.**, Irons, D.B., & McKnight, A. (2013). *Brachyramphus murrelet* trends and the Prince William Sound, Alaska, surveys: A response to Hodges and Kirchhoff. *Marine Ornithology*. 41, 69-71
- Allyn, A.J.**, McKnight, A., McGarigal, K., Griffin, C.R., Kuletz, K.J., & Irons, D.B. (2012). Relationships among Kittlitz's murrelet habitat use, temperature-depth profiles, and landscape features in Prince William Sound, Alaska, USA. *Marine Ecology Progress Series*. 466, 233-247
- Allyn, A.J.** (2012). Population Size, Habitat Use and Diet of Kittlitz's Murrelets in Prince William Sound, Alaska. Masters Thesis. *University of Massachusetts Amherst*. <https://doi.org/10.7275/2406354>
- McKnight, A., Irons, D.B., **Allyn, A.J.**, Sullivan, K.M., & Suryan, R.M. (2011). Winter dispersal and activity patterns of post-breeding black-legged kittiwakes *Rissa tridactyla* from Prince William Sound, Alaska. *Marine Ecology Progress Series*. 442, 241-253
- Kuletz, K.J., Nations, C.S., Manly, B., **Allyn, A.J.**, Irons, D.B., & McKnight, A. (2011). Distribution, abundance and population trends of the Kittlitz's Murrelet *Brachyramphus brevirostris* in Prince William Sound, Alaska. *Marine Ornithology*. 39, 97-109

Research Grants

Francisco J. Varela Research Grant (Mind & Life Institute) — PI

USD \$20,000

TRANSFORMING HABITS FROM THE HEART: FROM GOOD INTENTIONS TO RELIABLE PROSOCIAL RESPONSE

2019 - 2022

Recognitions And Awards

2023	Bourse Adrien-Pinard en psychologie - Doctorat	\$4,000
2023	International Mobility Award - Offices jeunesse internationaux du Québec (LOJIQ)	\$750
2023	International Mobility Award - Ministère de l'Éducation, de l'Enseignement supérieur (MEES)	\$5,600
2023	Prix reconnaissance de l'implication étudiante (UQAM) - Personnalités 2e et 3e cycles.	\$1,500
2023	Prix reconnaissance de l'implication étudiante (UQAM) - Projet, Volet Santé et saines habitudes de vie ..	\$1,000
2023	Society for Improving Psychological Science (SIPS) Mission Award, given to the easystats project	\$0
2023	Bourse de la Fondation J.A. DeSève - Doctorat	\$5,500
2023	Prix du mérite UQAM - Relève étudiante (doctorat)	\$1,000
2023	Bourse d'engagement du Syndicat des professeurs et professeures de l'UQAM (SPUQ) - Doctorat	\$4,000
2022	Bourse Desjardins, catégorie Coup de pouce – Persévérance scolaire	\$500
2022	Prix de la meilleure présentation orale étudiante au 22e colloque de l'ASMC	\$100
2022	Bourse d'aide à la participation à des rencontres scientifiques (UQAM + AGEPSY-CS)	\$850
2022	Prix reconnaissance de l'implication étudiante (UQAM) - Projet, Volet Santé et saines habitudes de vie ..	\$1,000
2022	Prix Relève étoile Paul-Gérin-Lajoie, for best paper (FRQSC)	\$1,000
2021	Bourse d'implication Desjardins, for student involvement	\$2,000
2021	Finalist (< 6% of applicants) for the Pierre Elliott Trudeau Scholarship (valued at \$180,000)	\$0
2021	Bourse d'excellence de l'Institut des sciences cognitives (UQAM)	\$2,000
2019	McGill Department of Psychiatry Travel Award	\$485
2019	Storytellers public speaking contest Finalist (SSHRC)	\$3,000
2018-2021	Joseph-Armand Bombardier Canada Graduate Scholarship-Doctoral (SSHRC)	\$105,000
2018-2021	Fonds de recherche du Québec - Société et culture-Doctoral — Declined	(\$84,000)
2017-2018	Joseph-Armand Bombardier Canada Graduate Scholarship-Master's (SSHRC)	\$17,500
2017-2018	Fonds de recherche du Québec - Société et culture-Master's — Declined	(\$15,000)
2016-2017	Graduate Excellence Fellowship in Mental Health Research	\$10,000
2015	Faculty of Arts Research Internship Award	\$4,000
2013	Je prends ma place Laureate, for citizen engagement (Québec Government)	\$1,000
2013	Forces Avenir Laureate – College, Committed Student	\$2,500
2012	Bourse Coopérative-Odyssée, for student engagement	\$750
2011	Bourse Édouard-Montpetit-Desjardins, for student engagement	\$750
2011-2022	Total Amount Offered	\$274,785

Preprints

Thériault, R., Ben-Shachar, M. S., Patil, I., Lüdtke, D., Wiernik, B. M., & Makowski, D. (2023). Check your outliers! An introduction to identifying statistical outliers in R with *easystats*. *PsyArXiv*, 1-9. <https://doi.org/10.31234/osf.io/bu6nt>

Makowski, D., Patil, I., Ben-Shachar, M. S., Wiernik, B. M., Bacher, E., Lüdtke, D., & **Thériault, R.** (2023). report: Automated reporting of results and statistical models in R. https://remi-theriault.com/preprints/makowski_et_al_2023.pdf

Thériault, R. (2023). L'importance de la science ouverte en recherche en psychologie. <https://doi.org/10.31234/osf.io/758dx>

Non-Peer-Reviewed Publications

Thériault, R. (2023). Bonnes pratiques et science ouverte : Un document d'accompagnement au PRD. https://remi-theriault.com/files/science_ouverte2023.pdf

Thériault, R., Masson, R., & Dandeneau, S. (in preparation). Is the Mind More Powerful Than the Heart? A Randomized Controlled Trial of Two Loving-Kindness Interventions.

Thériault, R., Dandeneau, S., & Baldwin, M. (in preparation). All in a smiling face: The attentional benefits of dynamic attention training for low self-esteem individuals.

Thériault, R., Landry, M., Mattuck, S., and Raz, A. (in preparation). The Rubber Hand Illusion: Does cognitive load affect EEG & electrodermal activity?

Thériault, R., Corber, L., MacLean, C. W., Napoleon, J.-S., Olson, J., Turkakin, E., & Raz, A. (in preparation). Suggestion affects subjective breathlessness but not objective pulmonary function.

Thériault, R. (2018). *Comparing the effects of mental and embodied perspective-taking* (Master's thesis). McGill University, Montréal, Québec, Canada.

Thériault, R. (2016). *Exploring cognitive dimensions of body ownership* (Bachelor's thesis). McGill University, Montréal, Québec, Canada.

Thériault, R., Baron, A., & Cowell, B. (2012). *Comment les activités artistiques peuvent développer l'estime de soi chez les jeunes marginalisés : une intervention en cirque social à la maison des jeunes Kekpart* (Collegial thesis). Cégep Édouard-Montpetit, Longueuil, Québec, Canada.

Invited Talks

- Thériault, R.***, Quilico, E.*, Tétreault, F.*, Labossière, S.*, Boudreau, S.* (2020, May 13; *all panelists contributed equally). Workshop with the SSHRC's Storytellers finalists: an opportunity to learn about and practice the art of presenting (Atelier avec les finalistes du concours CRSH – J'ai une histoire à raconter : une occasion d'apprendre et pratiquer l'art de la présentation). Panel organized by the *Centre for Interdisciplinary Research in Rehabilitation of Greater Montreal (CRIR)*. Presentation available from: <https://youtu.be/8Vfn0jnon30?t=4288>.
- Thériault, R.**, Dennie, A., Djehounke, L., Light, E., Chamberlain, C. W., Krol, S., Olson, J., & Raz, A. (2019, January 15). Immersive embodiment experiences improve intergroup relations, empathy, self-other overlap, and prejudice. Online webinar for the *Student Speaker Series* of the *Student Division of the International Positive Psychology Association*. Presentation available from: <https://vimeo.com/user68157211/review/378278530/8d86f3cb33>.
- Thériault, R.**, Dennie, A., Djehounke, L., Light, E., Chamberlain, C. W., Krol, S., Olson, J., & Raz, A. (2018, October 25). Virtual-reality-based immersive embodiment experiences increase empathy, reduce prejudice. Oral presentation for the *Institute for Interdisciplinary Brain and Behavioral Science* in Orange, California.
- Thériault, R.**, & Raz, A. (2016, December 8). Diagnosing asthma across Canada: question marks... and exclamation points! Oral presentation for the *Chronic Diseases Seminar* for the *Research Center of the Hôpital Sacré-Coeur de Montréal, QC*.
- Thériault, R.** (2016, October 19). Vers un changement constructif dans les communautés autochtones : une perspective de psychologie sociale. Oral presentation for the *Wampum Center* at the *Native Friendship Center of Montreal, QC*.

Conference Talks

- Thériault, R.**, Dion-Cliche, F., & Dandeneau, S. (2022, June 18). Fear of negative evaluation moderates the effect of social inclusion and social feedback on fundamental needs. Talk presented at the *2022 CPA Annual National Convention* in Calgary, AB.
- Thériault, R.**, Masson, R., Archambault, M., & Dandeneau, S. (2022, June 9). La méditation d'amour-bienveillant augmente-t-elle les comportements de don? Talk presented at the *22e congrès de L'Association scientifique pour la modification du comportement : Bienveillance et résilience : les visages de l'adaptation* in Montréal, QC.
- Thériault, R.**, Masson, R., Archambault, M., & Dandeneau, S. (2022, June 16-20). Does loving-kindness meditation increase giving behaviors? Talk presented at the *Tenth SELF International Conference* in Québec city, QC (virtual conference because of COVID).
- Thériault, R.** (2019, June 3). Réduire les préjugés et augmenter l'empathie via la réalité virtuelle. Talk presented at the *2019 Congress of the Humanities and Social Sciences* in Vancouver, BC.
- Thériault, R.**, Corber, L., MacLean, C. W., Napoleon, J.-S., Olson, J. A., & Raz, A. (2018, August 24). Can suggestion affect pulmonary function in children with suspected asthma? Talk presented at the *21st World Congress of Medical and Clinical Hypnosis* in Montréal, QC.
- Dennie, A., Djehounke, L., Light, E., Chamberlain, C. W., **Thériault, R.**, Krol, S., Olson, J., & Raz, A. (2018, June 5). Walking a mile in another's shoes: Can virtual reality decrease prejudice? Conference talk presented by first author at the *Research Day of the Douglas Hospital Research Centre and McGill Department of Psychiatry* in Montréal, QC.
- Thériault, R.**, Krol, S., & Raz, A. (2017, July 14). Investigating the effects of mental versus embodied perspective-taking on prejudice. Talk presented at the *5th World Congress on Positive Psychology* in Montréal, QC.
- Thériault, R.**, Landry, M., Mattuck, S., & Raz, A. (2017, June 2). The Rubber Hand Illusion: Does load affect EEG & electrodermal activity? Talk presented at the *Research Day of the Douglas Hospital Research Centre and McGill Department of Psychiatry* in Montréal, QC.
- Lifshitz, M., Sheiner, E., Olson, J., **Thériault, R.**, & Raz, A. (2016, October 6). On suggestibility and placebo. Conference talk presented by first author at the *67th meeting of the Society for Clinical and Experimental Hypnosis* in Boston, MA.

Conference Poster Presentations

- Chabot, B., **Thériault, R.**, Doucerain, M. (2023, July 23-27). *Diversity and Immigration: How Montrealers Feel about Different Cultural Groups*. Poster session presented by first author at the *Biennial Conference of the International Academy for Intercultural Research* in Philadelphia, Pennsylvania, USA.
- Chabot, B., **Thériault, R.**, Doucerain, M. (2023, May 27). *Le sentiment des Montréalais envers différents groupes culturels*. Poster session presented by first author at the *45e congrès annuel de la société québécoise pour la recherche en psychologie* in Sherbrooke, QC.
- Masson, R., **Thériault, R.**, Archambault, M., & Dandeneau, S. (2021, July). *Can loving-kindness meditation reduce aggression? A randomized controlled trial*. Poster session presented by first author at the *7th World Congress on Positive Psychology* in Vancouver, BC (virtual conference because of COVID).
- Masson, R., **Thériault, R.**, Archambault, M., & Dandeneau, S. (2021, June). *Can prosocial attitudes and behaviors be positively influenced by aggression and subjective fatigue?* Poster session presented by first author at the *Canadian Psychology Association's 82nd Annual National Convention*, Ottawa, ON (virtual conference because of COVID).
- Masson, R., **Thériault, R.**, Archambault, M., & Dandeneau, S. (2021, April 28-May 7). L'agressivité et la fatigue cognitive peuvent-elles mener à de plus grands comportements d'aide et de don? Poster session presented by first author at the *88th Congress of ACFAS—l'Association francophone pour le savoir* (virtual conference because of COVID).
- Bold, J., **Thériault, R.**, Olson, J., Stain, A., Curry, D., & Raz, A. (2020, February 29). Replicating the body swap in a different sample: Preliminary data. Poster session presented by first author at the *Society for Personality and Social Psychology Annual Convention* in New Orleans, Louisiana, USA.
- Thériault, R.**, Dandeneau, S., & Baldwin, M. (2019, July 20). All in a smiling face: The attentional benefits of dynamic attention training for low self-esteem individuals. Poster session presented at the *6th World Congress on Positive Psychology* in Melbourne, Australia.
- Thériault, R.**, & Dandeneau, S. (2019, June 12). Trait self-control moderates the effects of priming mindfulness on aggressive behaviour. Poster session presented at the *Mind & Life Summer Research Institute* in Garrison, New York, USA.
- Thériault, R.**, Dennie, A., Djehounke, L., Light, E., Chamberlain, C. W., Krol, S., Olson, J., & Raz, A. (2018, June 6). Being one with diversity through perspective-taking: Mind or body to increase prosocial feelings? Poster session presented at the *Mind & Life Summer Research Institute* in Garrison, New York, USA.
- Dennie, A., Djehounke, L., Light, E., Chamberlain, C. W., **Thériault, R.**, Krol, S., Olson, J. A., & Raz, A. (2018, June 5). Walking a mile in another's shoes: Can

virtual reality decrease prejudice? Poster session presented by first three authors at the *Research Day of the Douglas Hospital Research Centre and McGill Department of Psychiatry* in Montréal, QC.

Thériault, R., Dennie, A., Djehounke, L., Light, E., Chamberlain, C. W., Krol, S., Olson, J., & Raz, A. (2018, May 24-25). Comparing two interventions to reduce prejudice and increase empathy. Poster session presented at the *4th Canadian Conference on Positive Psychology* in Toronto, ON.

Thériault, R., Landry, M., Mattuck, S., & Raz, A. (2017, June 2). The Rubber Hand Illusion: Does load affect EEG & electrodermal activity? Poster session presented at the *Research Day of the Douglas Hospital Research Centre and McGill Department of Psychiatry* in Montréal, QC.

Thériault, R., Landry, M., Mattuck, S., & Raz, A. (2017, May 12). The impact of load on electrodermal activity during the Rubber Hand Illusion. Poster session presented at the *8th Annual LDI Scientific Retreat* in Montréal, QC.

Mattuck, S., **Thériault, R.**, Landry, M., & Raz, A. (2017, April 17). Exploring the influence of cognitive resources on body ownership. Poster session presented by first author at the *Psychology Undergraduate Research Day* at McGill University in Montréal, QC.

Thériault, R., Landry, M., & Raz, A. (2016, April 15). Exploring the effects of cognitive load and task instructions in the Rubber Hand Illusion. Poster session presented at the *Psychology Undergraduate Research Day* at McGill University in Montréal, QC.

Thériault, R., Landry, M., & Raz, A. (2016, January 19). Exploring cognitive aspects of body ownership. Poster session presented at the *6th Annual Faculty of Arts Undergraduate Research Event* at McGill University in Montréal, QC.

Academic Service

Core team member of *easystats* (seven members; official start date: 2022-08). The *easystats* project aims to increase the adoption of good statistical practices through open science tools, for example through a collection of R packages that provide a unifying and consistent framework around statistics. This responsibility involves writing code to improve the various R packages associated with the project and participating in the general decision-making. At this time, the *easystats* packages have collectively been downloaded over 12 millions times. Available from: <https://easystats.github.io/easystats/>

Reviewer for the *XXI World Congress of Medical and Clinical Hypnosis*, organized by the International Society of Hypnosis and the Société Québécoise d’Hypnose, August 22-25, 2018, Montréal.

Reviewer for scientific journals (total of 11): *Group Processes and Intergroup Relations* (1), *Psychology of Consciousness: Theory, Research, and Practice* (7), *International Journal of Mental Health Promotion* (1), *Scientific Reports* (1), *Journal of Statistical Software* (1). See the “Peer Review” tab (and purple “Open dashboard” button on the right) at: <https://www.webofscience.com/wos/author/record/AAC-6100-2022>

Peer Review Metrics

10	9	1.3:1
Verified Peer Reviews	Verified Peer Reviews (Last 12 Months)	Peer Review to Publication Ratio
Median: 4	Median: 1	Median: 0.3:1
74th percentile	94th percentile	

Average Review Length

